FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
RE	A1	3,977,255	8-31-1976	Groleau et al.	73	865.9	
	A2	4,387,655	06-14-1983	Chaiken	110	347	
	A3	4,504,920	03-12-1985	Mickowski	702	183	
	A4	4,534,003	08-06-1985	Manzione	700	200	
	A5	4,641,270	02-03-1987	Lalloz et al.	700	98	
	A6	4,676,664	06-30-1987	Anderson et al.	374	136	
	A7	4,868,751	09-19-1989	Dogru et al.	702	12	
	A8	4,989,166	01-29-1991	Akasaka et al.	716	20	
	A9	5,031,108	07-09-1991	Fujita et al.	700	197	
	A10	5,031,127	07-09-1991	Fujita et al.	700	197	
	A11	5,035,598	07-30-1991	Fujita et al.	425	144	
	A12	5,072,782	12-17-1991	Namba	164	45	
	A13	5,097,431	03-17-1992	Harada et al.	703	9	
	A14	5,097,432	03-17-1992	Harada et al.	703	9	
	A15	5,146,086	09-08-1992	De et al.	250	253	
	A16	5,189,626	02-23-1993	Colburn	700	182	
	A17	5,311,932	05-17-1994	Sen et al.	165	109.1	
	A18	5,350,547	09-27-1994	Yamaguchi et al.	264	40.1	
	A19	5,377,119	12-27-1994	Backer et al.	700	146	
	A20	5,408,638	04-18-1995	Sagawa et al.	716	20	
	A21	5,543,093	08-06-1996	Nakamura et al.	264	40.5	
	A22	5,549,857	08-27-1996	Kamiguchi et al.	264	40.1	
	A23	5,572,434	11-05-1996	Wang et al.	700	197	
	A24	5,581,468	12-03-1996	White et al.	700	204	

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AD	A25	5,700,406	12-23-1997	Menhennett et al.	264	40.4	
AD	A26	5,760,779	06-02-1998	Yamashita et al.	345	421	
AD	A27	5,811,133	09-22-1998	Saito et al.	425	145	
AD	A28	5,812,402	09-22-1998	Nishiyama	700	97	
AD	A29	5,835,379	11-10-1998	Nakano	700	197	
AD	A30	5,989,473	11-23-1999	Haverty	264	279	
AD	A31	6,021,270	02-01-2000	Hanaki et al.	703	7	
AD	A32	6,077,472	06-20-2000	Kataoka et al.	264	338	
AD	A33	6,089,744	07-18-2000	Chen et al.	703	2	
AD	A34	6,096,088	08-01-2000	Yu et al.	703	9	
AD	A35	6,161,057	12-12-2000	Nakano	700	197	
AD	A36	6,180,201	01-30-2001	Sandstrom	428	64.1	
AD	A37	6,192,327	02-20-2001	Nishiyama et al.	703	2	
AD	A38	6,248,103	06-19-2001	Tannenbaum et al.	606	9	
AD	A39	6,327,553	12-04-2001	Nishiyama et al.	703	2	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
AD	B1	AU-A-27152/95	02-15-1996	AU				N	Y
AD	B2	721978	07-20-2000	AU				N	Y
AD	B3	0 525 198 A1	02-03-1993	EP				N	Y
AD	B4	0 698 467 A1	02-28-1996	EP				N	Y
AD	B5	0 747 198 A2	12-11-1996	EP				N	Y

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FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
AD	B6	4305424	10-28-1992	JP				Y	Y
AD	B7	4331125	11-19-1992	JP				Y	Y
AD	B8	7125034	05-16-1995	JP				Y	Y
AD	B9	8-230007	09-10-1996	JP				Y	Y
AD	B10	337718	02-28-2000	NZ				N	Y
AD	B11	98/43179	10-01-1998	WO				N	Y
AD	B12	01/23163 A1	04-05-2001	WO				N	Y.

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
AD	C1	Advani et al., "The Use of Tensors to Describe and Predict Fiber Orientation in Short Fiber Composites," J. Rheol., 31(8):751-784 (1987).
AD	C2	Angelloz et al., "Crystallization of Isotactic Polypropylene Under High Pressure (γ phase)," Macromolecules, 33:4138-4145 (2000).
AD	C3	Avrami, "Kinetics of Phase Change, I. General Theory," J. Chem. Phys., 7:1103-1112 (1939).
AD	C4	Baaijens, "Calculation of Residual Stresses in Injection Molded Products," Rheologica Acta, 30:284-299 (1991).
AD	C5	Batch, "3D Effects in Injection Molding Simulation," ANTEC '94, 1:547-553 (1994).
AD	C6	Bathe, "Finite Element Procedures in Engineering Analysis," 407-428 (1982).
AD	C7	Batoz et al., "A Discrete Shear Triangular Nine D.O.F. Element for the Analysis of Thick to Very Thin Plates," International Journal for Numerical Methods in Engineering, 28:533-560 (1989).
AD	C8	Batoz et al., "Formulation and Evaluation of New Triangular, Quadrilateral, Pentagonal and Hexagonal Discrete Kirchhoff plate/shell Elements," International Journal for Numerical Methods in Engineering, 52:615-630 (2001).
AD	C9	Begehr et al., "Hele-Shaw Type flows in R^n," Nonlinear Analysis, Theory, Methods & Applications, Great Britain, 10(1):65-66 (1986).

EXAMINER	DATE CONSIDERED
[signature]	2/4/2008

FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
R	C10	Begehr et al., "Non-Newtonian Hele-Shaw flows in n ≥ 2 Dimensions," Nonlinear Analysis, Theory, Methods & Applications, Great Britain, 11(1):17-18 (1987).
R	C11	Belytschko, "Meshless Methods: An Overview and Recent Developments," Computer Methods in Applied Mechanics and Engineering (Special Issue on Meshless Methods), 139:3-77 (1996).
R	C12	Bergan et al., "A Triangular Membrane Element with Rotational Degrees of Freedom," Computer Methods in Applied Mechanics and Engineering, 50(1):25-69 (1985).
R	C13	Booij, "The Energy Storage in the Rouse Model in an Arbitrary Flow Field," J. Chem. Phys., 80(9.1):4571-4572 (1984).
R	C14	Brincat et al., "Contraction Pressure Loss; Influence of Temperature and Fibre Reinforcement," Swinburne University of Technology, Moldflow Pty. Ltd., and Sunkyong Industries, Sorrento, Italy, 2 pgs. (1996).
R	C15	Brooks et al., "Streamline Upwind/Petrov-Galerkin Formulations for Convection Dominated Flows with Particular Emphasis on the Incompressible Navier-Stokes Equations," Computer Methods in Applied Mechanics and Engineering, 32:199-259 (1982).
R	C16	Bushman et al., "A Continuum Model for the Dynamics of Flow-Induced Crystallization," J. Polym. Sci.: Part B: Polymer Physics, 34:2393-2407 (1996).
R	C17	Chaubal et al, "A Closure Approximation of Liquid Crystalline Polymer Models Based on Parametric Density Estimation," J. Rheol., 42(1):177-201 (1998).
R	C18	Chung et al., "Invariant-Based Optimal Fitting Closure Approximation for the Numerical Prediction of Flow-Induced Fiber Orientation," J. Rheol., 46(1):169-194 (2002).
R	C19	Coppola et al, "Microrheological Modeling of Flow-Induced Crystallization," Macromolecules, 34:5030-5036 (2001).
R	C20	Costa et al., "An Adaptation of the Boundary Element Method for Modeling Gas Injection Molding," Simulation of Materials Processing: Theory, Methods and Applications, Rotterdam, The Netherlands, 1113-1118 (1995).
R	C21	Costa et al., "Gas Injection Molding Simulation By the Boundary Element Method," Swinburne University of Technology and Moldflow Pty. Ltd., Melbourne, Australia, 11 pgs. (1994).
R	C22	Daily et al., "Fluid Dynamics," 164-165, 180-185 (1966).
~~R~~	~~C23~~	~~Deanin, "Polymer Structure, Properties and Applications," pp. 162-185; 189-284; and 351-412.~~
R	C24	Deitz, "Optimizing injection-molded parts," Mechanical Engineering, 118(10):89-90 (1996).

EXAMINER R Guill	DATE CONSIDERED 2/4/2008

FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
R	C25	Ding et al., "Finite element simulation of an injection moulding process," International Journal for Numerical Methods for Heat and Fluid Flow 7(7):751-766 (1997).
R	C26	Doufas et al, "A Continuum Model for Flow-Induced Crystallization of Polymer Melts," J. Rheol., 43(1):85-109 (1999).
R	C27	Doufas et al., "Simulation of Melt Spinning Including Flow-Induced Crystallization. Part I. Model Development and Predictions," J. Non-Newtonian Fluid Mech., 92:27-66 (2000).
R	C28	Doufas et al., "Simulation of Melt Spinning Including Flow-Induced Crystallization. Part II. Quantitative Comparisons with Industrial Spinline Data," J. Non-Newtonian Fluid Mech., 92:81-103 (2000).
R	C29	Doufas et al., "Simulation of Melt Spinning Including Flow-Induced Crystallization. Part III. Quantitative Comparisons with PET Spinline Data," J. Rheol., 45(2):403-419 (2001).
~~R~~	~~C30~~	~~Duarte, "A Review of Some Meshless Methods to Solve Partial Differential Equations," TICAM Report 95-06, 1-37.~~
R	C31	Eder et al, "Crystallization," H.E.H. Meijer (ed.), Processing of Polymers, Vol. 18 Material Science and Technology: A Compressive Treatment, Chapter 5, 269-342 (VCH, Weinheim, 1997).
R	C32	Eder et al, "Crystallization Processes in Quiescent and Moving Polymer Melts Under Heat Transfer Conditions," Progress in Polymer Science, 15:629-714 (1990).
R	C33	Fan, "Viscosity, First Normal-Stress Coefficient and Molecular Stretching in Dilute Polymer Solutions," J. Non-Newtonian Fluid Mech., 17:125-144 (1985).
R	C34	Fan et al., "Simulation of Fibre Suspension Flows by the Brownian Configuration Field Method," J. Non-Newtonian Fluid Mech., 84:257-274 (1999).
R	C35	Fan et al., "Warpage Analysis of Solid Geometry," Society of Plastic Engineers Inc., ANTEC 2000 Conference Proceedings Volume I – Processing, 723-726 (2000).
R	C36	Feng et al., "Closure Approximations for the Doi Theory: Which to Use in Simulating Complex Flows of Liquid-Crystalline Polymers?" J. Rheol., 42(5):1095-1119 (1998).
R	C37	Friedl, "Progress Towards True 3D CAE Analysis for Injection Molding," Moldflow Pty. Ltd., 5 pgs. (1996).
R	C38	Fulchiron et al, "Analysis of the Pressure Effect on the Crystallization Kinetics of Polypropylene: Dilatometric Measurements and Thermal Gradient Modeling," J. Macromolecular Science – Physics, 40:297-314 (2001).
R	C39	"Getting Started with MF/Flow3D," Release 1.0.0, Moldflow Corporation, pp. i, ii, 1-84, (September 1998).
R	C40	"Getting Started with Moldflow Plastics Insight," Release 1.0, Moldflow Corporation, pp. i, ii, 1-91, (June 1999).

EXAMINER R Guill	DATE CONSIDERED 2/4/2008

FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
R	C41	Güçeri, "Finite Difference Solution of Field Problems," Fundamentals of Computer Modeling for Polymer Processing, C. Tucker, ed., Chapter 5, 198-199 (1989).
R	C42	Guo et al., "Crystallinity and Microstructure in Injection Moldings of Isotactic Polypropylenes. Part I: A New Approach to Modeling and Model Parameters," Polym. Eng. Sci., 39(10):2096-2114 (1999).
R	C43	Haschke, "Predicting plastic part life. (the benefits of dynamic mechanical analysis, especially with polymers)," (August 23, 2001) at http://www.findarticles.com/cf_dls/m3125/16_73/78362412/p1/article.jhtml?term=
R	C44	Hétu et al., "Three-dimensional Finite Element Simulation of Mold Filling Processes," Simulation of Materials Processing: Theory, Methods and Applications, Rotterdam, Netherlands, 1135-1140 (1995).
R	C45	Hieber et al. "A Finite-Element/Finite-Difference Simulation of the Injection-Molding Filling Process," Journal of Non-Newtonian Fluid Mechanics, 7:1-32 (1980).
R	C46	Hirt et al., "Volume of Fluid (VOF) Method for the Dynamics of Free Boundaries," Journal of Computational Physics, 39:201-225 (1981).
R	C47	Hoffman, et al, "Kinetics of Crystallization from the Melt and Chain Folding in Polyethylene Fractions Revisited: Theory and Experiment," Polymer, 38(13):3151-3212 (1997).
R	C48	Holman, "Heat Transfer," McGraw-Hill, Singapore, 136-139 (1989).
	~~C49~~	~~"Installation Guide for Moldflow Plastics Insight," Release 1.0.1, Moldflow Corporation, pp. i, 1-73 (June 1999).~~
R	C50	Kennedy, "Flow Analysis of Injection Molds," Germany, entire book (1995).
R	C51	Kennedy, "Governing Equations for the Filling Phase," Flow Analysis of Injection Molds, Hanser Publishers, Munich Vienna New York, 59-90 (1995).
R	C52	Kennedy, et al., "Plastic Cae Analysis of Solid Geometry," Antec '97, 666-669 (1997).
R	C53	Kolmogoroff, "On a Statistical Theory of Crystallization of Melts," Bull. Akad. Sci. USSR, Class Sci., Math. Nat., 1:355-359 (1937).
R	C54	Koscher et al., "Influence of Shear on Polypropylene Crystallization: Morphology Development and Kinetics," Polymer 43:6931-6942 (2002).
R	C55	Krieger et al., "A Mechanism for Non-Newtonian Flow in Suspensions of Rigid Spheres," Trans. Soc. Rheol., 3:137-152 (1959).

EXAMINER	R Guild	DATE CONSIDERED	2/4/2008

FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
R	C56	Kulkarni et al., "A Model for the Necking Phenomenon in High-Speed Fiber Spinning Based on Flow-Induced Crystallization," J. Rheol., 42(4):971-994 (1998).
AA	C57	Lauritzen et al, "Theory of Formation of Polymer Crystals with Folded Chains in Dilute Solution," J. Res. Natl. Bur. Stand., 64A(1):73-102 (1960).
AA	C58	Li et al., "Meshfree and Particle Methods and Their Applications," Applied Mechanics Review, 55(1):1-80 (2002).
	C59	Masada et al., "A Bimodal Structure of Solution-Crown Isotactic Polypropylene with Orthogonally Crossed Lamellae," J. Polym. Sci. Part B: Polym. Phys., 31:843-852 (1993).
	C60	Materials Characterization – Dynamic Mechanical Analysis (DMA), at http://www.calce.umd.edu/general/Facilities/dma.htm, 2 pages (last visited July 7, 2004).
	C61	Metzner, "Rheology of Suspensions in Polymer Liquid," J. Rheol., 29(6):739-775 (1985).
	C62	"Moldflow Design Principles," Moldflow Corporation, pp. cover, i-vi, 1-55 (1984).
	C63	Mori et al., "Simplified Three Dimensional Simulation of Non-Isothermal Filing in Metal Injection Moulding by Finite Element Method," Engineering computations, 1996.
	C64	Painter et al., Fundamentals of Polymer Science an Introductory Text – Second Edition, pp. 237-257; 259-274; 279-305; 321- 336; and 395-469.
	C65	Pantani et al, "Relevance of Crystallisation Kinetics in the Simulation of the Injection Molding Process," Int. Polym. Process., 16:61-71 (2001).
	C66	Peters, et al., "A Recoverable Strain-Based Model for Flow-Induced Crystallization," Macromol. Symp., 185:277-292 (2002).
	C67	Phan-Thien et al., "Macroscopic Modelling of the Evolution of Fibre Orientation During Flow," Flow-Induced Alignment In Composite Materials, Chapter 3, 77-111 (1997).
	C68	Prandtl, "Essentials of Fluid Dynamics," pp. 150-151 (1967).
	C69	Rajupalem et al., "Three-Dimensional Simulation Of The Injection Molding Process," Moldflow Pty. Ltd., 4 pgs. (1997).
	C70	Ray et al., "Incorporation of Viscoelastic Constitutive Equations in the Injection Molding Process," Industrial Research Institute Swinburne and Moldflow Pty. Ltd., Cairns, Australia, 10 pgs. (September 1997).
	C71	Ray et al., "Three Dimensional Simulation of Viscoelastic Constitutive Equations Using a Segregated Finite Element Scheme," Industrial Research Institute Swinburne and Moldflow Pty. Ltd., Adelaide, Australia, 4 pgs. (July 1998).

EXAMINER R Gupta	DATE CONSIDERED 3/7/2008

FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C72	Rezayat et al., "A Thermoviscoelastic Model for Residual Stress in Injection Molded Thermoplastics," Polymer Engineering and Science, 31(6):393-398 (1991).
	C73	Rice et al., "An Equal-Order Velocity-Pressure Formulation That Does Not Exhibit Spurious Pressure Modes," Computer Methods in Applied Mechanics and Engineering, 58:135-149 (1986).
	C74	Richardson, "Hele Shaw Flows With a Free Boundary Produced by the Injection of Fluid into a Narrow Channel," J. Fluid Mech., 56(4):609-618 (1972).
	C75	Saad et al., "GMRES: A Generalized Minimal Residual Algorithm for Solving Nonsymmetric Linear Systems," Siam J. Sci. Stat. Comput., 7(3):856-869 (July 1986).
	C76	Slattery, "Momentum, Energy, and Mass Transfer in Continua," 98-99 (1972)
	C77	Sukumar et al., "Natural Neighbour Galerkin Methods," International Journal for Numerical Methods in Engineering, 50:1-27 (2001).
	C78	Talwar et al., "Three-dimensional Simulation of Polymer Injection Molding: Verification," Moldflow International Pty. Ltd., Seoul, Korea, 51-58 (July 1998).
	C79	Talwar et al., "Three Dimensional Mould Filling Simulation Using a Segregated Finite Element Scheme," Moldflow Inc., Cairns, Australia, 11 pgs. (September 1997).
	C80	Talwar et al., "Three Dimensional Simulation of Plastic Injection Molding," Moldflow Pty. Ltd., 6 pgs. (1998).
	C81	Talwar et al., "Three Dimensional Simulation of Plastic Injection Molding," Moldflow Pty. Ltd., Michigan, 9 pgs. (1998).
	C82	Tanner, "Stresses in Dilute Solutions of Bead-Nonlinear-Spring Macromolecules, II. Unsteady Flows and Approximate Constitutive Relations," Trans. Soc. Rheol., 19(1):37-65 (1975).
	C83	Tanner, "A Suspension Model for Low Shear Rate Polymer Solidification," J. Non-Newtonian Fluid Mech., 102:397-408 (2002).
	C84	Vleeshouwers, et al, "A Rheological Study of Shear Induced Crystallization," Rheol. Acta, 35(5):391-399 (1996).
	C85	Voller et al., "An Algorithm for Analysis of Polymer Filling of Molds," Polymer Engineering and Science, 35(22):1758-1765 (1995).
	C86	Walsh, "Shrinkage and Warpage Prediction for Injection Molded Components," Journal of Reinforced Plastics and Composites, 12:769-777 (1993).
	C87	Wang et al., "Numerical Techniques for Free and Moving Boundary Problems," Fundamentals of Computer Modeling for Polymer Processing, C. Tucker, ed., Chapter 8:375-377 (1989).

EXAMINER R. Guild	DATE CONSIDERED 2/27/2008

FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C88	Wassner et al., "Shear-Induced Crystallization of Polypropylene Melts," Proc. XIII Congr. Rheol., 1:83-85 (2000).
	C89	Wedgewood, et al., "From Molecular Models to the Solution of Flow Problems," Ind. Eng. Chem. Res., 27:1313-1320 (1988).
	C90	Yokoi et al., "Measurement of Melt Temperature Profiles During Filling and Packing Processes Using a New Integrated Thermocouple Sensor," University of Tokyo and Yamaha Motor Co., Ltd., 7 pgs. (1992).
	C91	Young et al., "Analysis of Resin Injection Molding in Molds with Preplaced Fiber Mats II: Numerical Simulation and Experiments of Mold Filling," Polymer Composites, 12(1):30-38 (1991).
	C92	Yu et al., "A Hybrid 3D/2D Finite Element Technique for Polymer Processing Operations," Polymer Engineering and Science, 39(1):44-54 (1999).
	C93	Zheng et al., "Predicting Warpage of Injection Molded Fiber-Reinforced Plastics," Journal of Thermoplastic Composite Materials, 9:90-106 (1996).
	C94	Zheng et al., "Thermoviscoelastic Simulation of Thermally and Pressure-Induced Stresses in Injection Moulding for the Prediction of Shrinkage and Warpage for Fibre-reinforced Thermoplastics," Journal of Non-Newtonian Fluid Mechanics, 84:159-190 (1999).
	C95	Ziabicki, "Crystallization of Polymers in Variable External Conditions. II. Effects of Cooling in the Absence of Stress and Orientation," Colloid Polym. Sci., 274(8):705-716 (1996).
	C96	Ziabicki, "The Mechanisms of Neck-Like Deformation in High-Speed Melt Spinning. 2. Effects of Polymer Crystallization," J. Non-Newtonian Fluid Mech., 30:157-168 (1988).
	C97	Zuidema, et al., "Development and Validation of a Recoverable Strain-Based Model on Flow-Induced Crystallization of Polymers," Macromol. Theory Simul., 10(5):447-460 (2001).

EXAMINER R. Guild	DATE CONSIDERED 2/27/2008

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FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
R	A40	6,136,235	10/24/2000	Saito *et al.*	264	40.1	07/01/1998

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
R	B13	09262887	10/07/1997	JP				Y	Y (Abstract Only)
R	B14	10138312	05/26/1998	JP				Y	Y (Abstract Only)
R	B15	10156885	06/16/1998	JP				N	Y (Abstract Only)
R	B16	2002219739	08/06/2002	JP				N	Y (Abstract Only)

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
~~R~~	C98 ~~Bird *et al.*, Dynamics of Polymeric Liquids, 2nd ed. Vol. 2, John Wiley & Sons, New York (1987).~~
R	C99 Guo *et al.*, "Numerical Simulation of Injection Molding of Semicrystalline Thermoplastics," Antec, Plastic the Lone Star 2001, 1:1-5 (2001).
R	C100 Guo *et al.*, "On the Prediction of Crystallinity Distribution in Injection Molded Semi-Crystalline Thermoplastics," Antec 2000, Plastic the Magical Solution, 1:1-5 (2000).
R	C101 Liu, "Isothermal Flow Simulation of Liquid Composite Molding," Composites, Part A 31:1295-1302 (2000).
R	C102 Muslet *et al.*, "Computer Simulation of the Film Blowing Process Incorporating Crystallization and Viscoelastic Effects," Antec, 3:3241-3245 (2003).
R	C103 Pouzada *et al.*, "The Use of Morphology Data in the Design of Injection Moulded Flat Products," Antec, Plastics Bridging the Millennium, 3:1-5 (1999).
~~R~~	C104 ~~Tanner, "Engineering Rheology, 2nd ed.," Oxford University Press, London (2000)~~
R	C105 Zheng *et al.*, "A Model for Post-Flow Induced Crystallization: General Equations and Predictions," The Society of Rheology, Inc., 48(4):823-842 (2004).
~~R~~	~~C106 Ziabicki, "Fundamentals of Fiber Formation," (Wiley, New York, 1976).~~
R	C107 International Search Report for International Application No. PCT/US2004/006256, dated August 16, 2004 (6 pages).

EXAMINER R Guill	DATE CONSIDERED 3/7/2005

3139887-2

FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng *et al.* SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
AR	C108	Acierno *et al.*, "Effect of Molecular Weight on the Flow-Induced Crystallization of Isotactic Poly(1-butene)," Rheol. Acta, 42:243-250 (2003).
AR	C109	Boutahar *et al.*, "Crystallization of Polyolefins from Rheological Measurements-Relation between the Transformed Fraction and the Dynamic Moduli," Macromolecules, 31:1921-1929 (1998).
AR	C110	Duplay *et al.*, "Shear-Induced Crystallization of Polypropylene: Influence of Molecular Weight," J. Mater. Sci., 35:6093-6103 (2000).
AR	C111	Jay *et al.*, "Shear-Induced Crystallization of Polypropylenes: Effect of Molecular Weight," J. Mater. Sci., 34:2089-2102 (1999).
AR	C112	Keller *et al.*, "Flow Induced Orientation and Structure Formation," H.E.H. Meijer (Ed.) Materials Science and Technology, Vol. 18, Processing of Polymers, 189-268 (Wiley-VCH, New York, 1997).
AR	C113	Kumaraswamy *et al.*, "Shear Enhanced Crystallization in Isotactic Polypropylene. 1. Correspondence Between in situ rheo-optics and ex situ Structure Determination," Macromolecules, 32:7537-7547 (1999).
AR	C114	Mendoza *et al.*, "Spatial Distribution of Molecular Orientation In Injection Molded iPP: Influence of Processing Conditions," Polymer, 44:3363-3373 (2003).
AR	C115	Seki *et al.*, "Shear-Mediated Crystallization of Isotactic Polypropylene: The Role of Long Chain-Long Chain Overlap," Macromolecules, 35:2583-2594 (2002).
AR	C116	Swartjes, "Stress Induced Crystallization in Elongational Flow," (Ph.D. Thesis, Technical University of Eindhoven, the Netherland, 2001).
AR	C117	Tanner, "On the Flow of Crystallizing Polymers, I. Linear Regime," J. Non-Newtonian Fluid Mech., 112:251-268 (2003).
AR	C118	Zheng *et al.*, "Numerical Simulation of Crystallization in Injection Molding," 6th World Congress of Chemical Engineering, CD Proc. Paper 110, (Melbourne, September 2001).

EXAMINER AR	DATE CONSIDERED 8/7/2008

3152201-1

FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng et al. SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
R	A41.	5,677,846	10/14/1997	Kumashiro	716	20	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
R	C119. Cignoni *et al.*, "Multiresolution Representation and Visualization of Volume Data," IEEE Transactions on Visulazation and Computer Graphics, Vol. 3, No. 4, pp. 352-369 (1997).
R	C120. Shephard *et al.*, "Parallel Automatic Adaptive Analysis," Parallel Computing, Vol. 23, pp. 1327-1347 (1997).
R	C121. Yang, H.Q. *et al.*, "Time-Accurate, 3-D Computation of Wire Sweep During Plastic Encapsulation of IC Components" IEEE Electronic Components and Technology Conference, pp. 158-167 (1997).

EXAMINER	DATE CONSIDERED 2/4/2008

LIBC/2549998.1